

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF MEDICINE**  
**M.B.B.S, July-2019 Examination**

**Year: 1**

**Subject Code: 19100103**

**Subject Name: Physiology Paper- I**

**Date: 19/07/2019**

**Time: 10:30am To 1:00pm**

**Total Marks: 50**

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**Instructions:**

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section-A, section-B, section-C on separate answer sheets.

**Section A**

Q.1. Define Cardiac cycle. Describe various phase of cardiac cycle. What is murmur? **(10)**

Q.2. **Short notes (any 2)** **(08)**

- a) Digestion of fat in intestine      b) CO<sub>2</sub> transport in blood      c) facilitated diffusion

**Section B**

Q.3. **Attempt any 3.** **(15)**

- a) GFR      b) Surfactant      c) Functions of plasma proteins      d) Functions of Bile

**Section C**

Q.4. **write notes on any 4.** **(12)**

- a) Heart rate      b) labeled diagram of a Nephron      c) Platelets      d) dead space      e) positive feedback mechanism

Q.5 **Answer in one word.** **(05)**

- a) Out of Secretin & CCK, which one plays, more important role in neutralizing chyme in small Intestine?
- b) Rearrange the sequence of: secretion, filtration and absorption to get the correct sequence for formation of urine by kidney.
- c) Name the granulocyte playing an important role in Phagocytosis.
- d) What is the value of residual volume in lung of a young Indian male at rest?
- e) Decrease in level of which plasma protein is most likely to result in formation of oedema?